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60. The method as claimed in claim 57, further comprising:

completing said winding of said buffer tube onto said spool; and

winding said buffer tube onto a second spool while removing said pad from

said winding.

61. A method of winding a buffer tube having at least one optical fiber contained therein on a spool comprising:

winding said buffer tube onto a first spool while inserting a pad between successive layers of said buffer tube and providing a draw tension on said buffer tube; and

winding said buffer tube onto a second spool from said first spool while removing said pad from said windings of said buffer tube.

- 15 62. The method as claimed in claim 61, further comprising placing a buffer pad on said spool prior to winding said buffer tube.
  - 63. The method as claimed in claim 62, wherein said buffer pad has a Young's modulus less than that of said buffer tube.
  - 64. The method as claimed in claim 61, wherein said pad has a Young's modulus less than that of said buffer tube.

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The method as claimed in claim 61, wherein a diameter of said first spool at a 65. point where said buffer tube is winding on said first spool is larger than 100 mm.

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- 66. The method as claimed in claim 61, wherein a length of said buffer tube is less than 10 km.
- The method as claimed in claim 61, further comprising varying said draw 67. tension while said buffer tube is winding onto said first spool.
- The method as claimed in claim 67, wherein said draw tension is decreased 68. while said buffer tube is winding onto said spool.
- The method as claimed in claim 67, wherein said draw tension is varied 69. according to a monotonical function.
- The method as claimed in claim 61, further comprising varying an angular 70 speed of said first spool while said buffer tube is winding onto said first spool.
- The method as claimed in claim 70, wherein said angular speed is increased 71. while said buffer tube is winding onto said first spool.
- 72. The method as claimed in claim 70, wherein said angular speed is varied according to a monotonical function.

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- 73. A fiber optic buffer tube having at least one optical fiber therein made in accordance with the method claimed in claim 34.
- 74. A fiber optic buffer tube having at least one optical fiber therein made in accordance with the method claimed in claim 47.
- 75. A fiber optic buffer tube having at least one optical fiber therein made in accordance with the method claimed in claim 61.
- 76. A method for winding a fiber optic buffer tube onto a spool, comprising: placing a buffer pad on an outer surface of a core of said spool;

winding said buffer tube onto said buffer pad while applying a first draw tension to said buffer tube:

functionally changing said first draw tension as said buffer tube is wound onto said spool and said buffer pad;

measuring EFL of said buffer tube and determining an error in said EFL; and re-spooling said buffer tube onto a second spool to correct said EFL error.

 The method as claimed in claim 76, further comprising heating said buffer tube during said re-spooling.